Appl. No. 09/649,792 Amdt. dated [insert date] Reply to Office Action of March 26, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1. (Amended herein) A method for processing a transport stream, the
2	method comprising:
3	(a) parsing the transport stream to derive multiple elementary substreams, each
4	elementary substream including a received media access control (MAC) address; and
5	(b) comparing in hardware the received MAC address of a particular elementary
6	substream against a plurality of stored MAC addresses, each stored MAC address having (i) a
7	concatenated disable bit, and (ii) at least one independent compare mask assigned to it that
8	masks a portion of the MAC address bits from the comparison when the disable bit is
9	inactivated;
10	(c) comparing any unmasked bits of the received MAC address against
11	corresponding unmasked bits of the comparison MAC address;
12	(d) comparing the disable bit with each of the bits in the compare mask to
13	determine if the mask has been disabled for the remaining bits of the MAC addresses;
14	(e) comparing the remaining bits of the received MAC address with the
15	corresponding bits of the comparison MAC address when the mask has been disabled; and
16	(f) repeating steps (c)-(e) for each of the received MAC addresses until a
17	match is achieved between each received MAC address and a particular comparison MAC
18	address.
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1	2. (Original) The method according to claim, the method further comprising:
2	(a) parsing the transport stream to derive multiple data streams including
3	associated program identifiers, each such data stream being associated with a plurality of the
4	multiple elementary substreams;

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stream, the system comprising:

5 (b) using the associated program identifiers and MAC addresses to determine 6 corresponding transfer locations in a host memory; and 7 (c) performing direct memory access transfers of the multiple data streams and 8 multiple elementary substreams to the corresponding transfer locations in the host memory. 1 (Original) The method according to claim, the method further comprising 3. 2 transferring the multiple data streams and multiple elementary substreams to an end user system. 1 4. (Original) The method according to claim wherein the end user system 2 comprises an audio-visual system and the step of transferring the multiple data streams and 3 multiple elementary substreams is performed through an audio-visual interface. (Original) The method according to claim wherein the end user system 1 5. 2 comprises a networked computer system and the step of transferring the multiple data streams and multiple elementary substreams is performed through a network interface. 3 1 6. (Original) The method according to claim wherein the end user system 2 further comprises a world wide web browser. 1 (Original) The method according to claim, the method further comprising 7. the step of filtering out unwanted elementary substreams associated with a particular data stream. 2 Claims 8-9 (Canceled). 10. (Amended herein) The method according to claim 18 wherein the 1 received MAC address comprises 48 bits and each of the stored MAC addresses comprises 48 2 3 bits. (Amended herein) A system for receiving and processing a transport 1 11.

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3	(a) a receiver configured to derive multiple elementary substreams, each
4	elementary substream including a received media access control (MAC) address having a
5	concatenated disable bit; and
6	(b) at least one independent stored compare mask assigned to each stored
7	MAC address that masks a portion of the MAC address bits from the comparison when the
8	disable bit is inactivated;
9	(c) a hardware comparison engine within the receiver, the hardware comparison
10	engine being configured to compare the received MAC address of a particular data stream
11.	against a plurality of stored MAC addresses.
12	(i) compare any unmasked bits of the received MAC address against
13	corresponding unmasked bits of the comparison MAC address;
14	(ii) compare the disable bit with each of the bits in the compare mask
15	to determine if the mask has been disabled for the remaining bits of the MAC addresses;
16	(iii) compare the remaining bits of the received MAC address with the
17	corresponding bits of the comparison MAC address when the mask has been disabled; and
18	(iv) repeat steps (i)-(iii) for each of the received MAC addresses until a
19	match is achieved between each received MAC address and a particular comparison MAC
20	address.
1	12. (Original) The system according to claim, the system further comprising
2	a direct memory access (DMA) transfer engine within the receiver, wherein the receiver is
.3	further configured to derive multiple data steams and associated program identifiers from the
4	transport stream, each such data stream being associated with a plurality of the multiple
5	elementary substreams, and wherein the DMA transfer engine is configure to initiate DMA
6	transfers of the multiple data streams and multiple elementary substreams to the corresponding
7	transfer locations in a host memory.
′	transfer focations in a nost memory.
1	13. (Original) The system according to claim, the system further comprising
2	an interface connected to the receiver configured to transfer the multiple data streams and

multiple elementary substreams to an end user system.

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- 1 14. (Original) The system according to claim wherein the end user system 2 comprises an audio-visual system and interface comprises an audio-visual interface.
 - 15. (Original) The system according to claim wherein the end user system comprises a networked computer system and the interface comprises a network interface.
- 1 16. (Original) The system according to claim wherein the end user system 2 further comprises a world wide web browser.
 - 17. (Original) The system according to claim wherein the hardware comparison engine is further configured to filter out unwanted elementary substreams associated with a particular data stream.

Claims 18-19 (Canceled).

- 1 20. (Original) The system according to claim wherein the received MAC address comprises 48 bits and each of the stored MAC addresses comprises 48 bits.
 - 21. (New) The method according to claim 1 wherein the comparison of unmasked bits in step (d) is implemented with an XNOR gate.
- 1 22. (New) The method according to claim 1 wherein step (d) is implemented 2 with an AND gate by comparing the disable bit with each of the masked bits and controlled with 3 an OR gate, which restricts the comparison of the masked bits to instances where the disable bit 4 has been activated.